

OUR
20th YEAR

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

RETURN ADDRESS:
Kenneth A. Ebnetter
822 Wauona Trail
Portage WI 53901

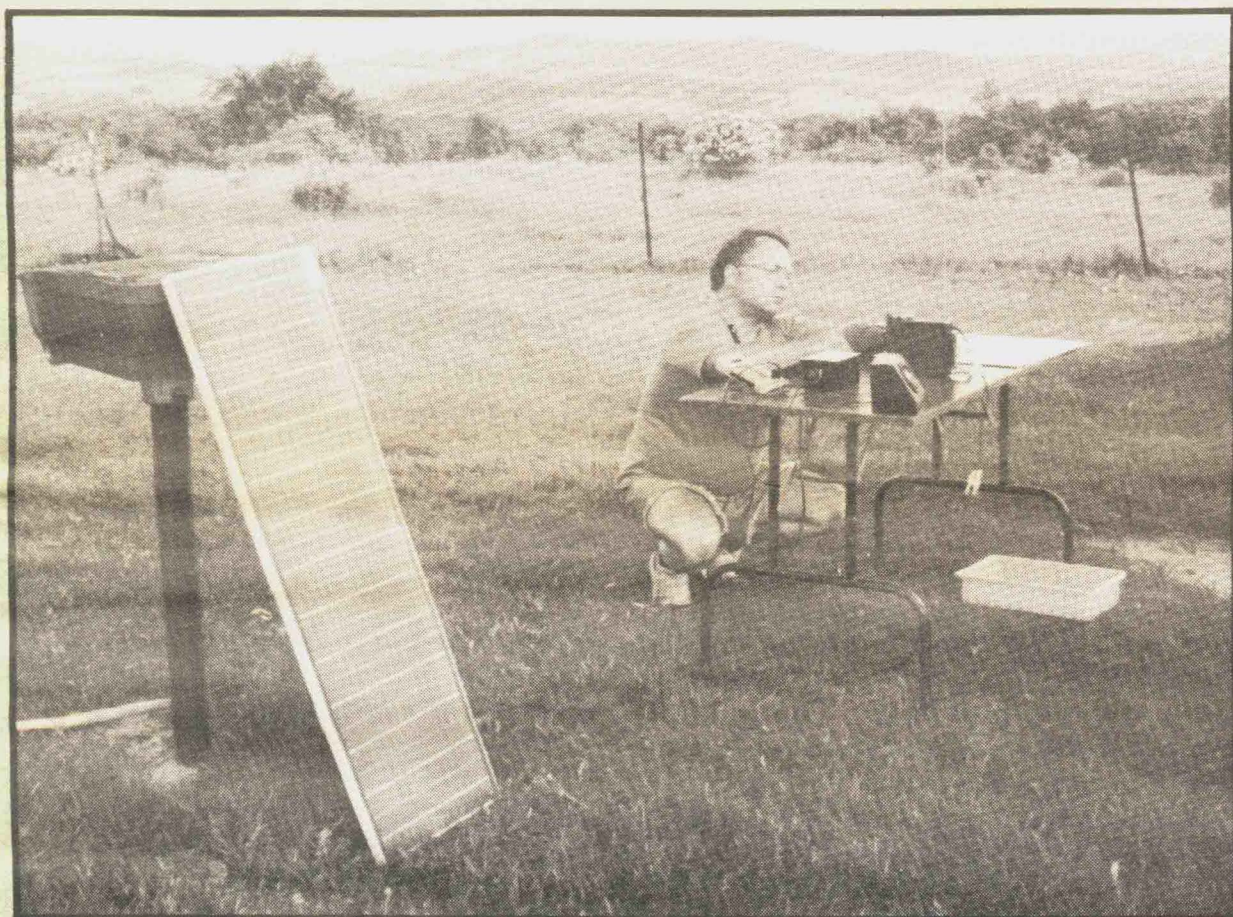
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Vol. 20 No. 8 - 236th Consecutive Monthly Issue - Baraboo, Wisconsin - August 1989

Sun + PVP = Free E x I



The "equation" above translates to "Photovoltaic panel plus Sun (light) equals free power." Field Day operators at the sites of the Four Lakes Amateur Radio Club (near Cross Plains, WI) and the Yellow Thunder Amateur Radio Club (Owen Park, Columbia County) enjoyed a demonstration

of solar-generated electricity when Everett Yost, KB9XI, stopped by the sites with his solar panel and rechargeable batteries; these powered a two-meter radio. Interest was high, as evidenced by Everett's holding a number of "panel discussions" about the setup.
- Photo by K9ZZ

FCC Denies ARRL Motion for Stay in Part 15 Revision

On June 15, 1989, the Federal Communications Commission denied the American Radio Relay League's Motion for Stay of the effective date of the Part 15 revision. In the Motion for Stay, the League demonstrated that irreparable harm would occur if the new Part 15 standards were allowed to go into effect as scheduled on June 23, 1989. The League had requested a stay until all administrative and judicial remedies had been exhausted in this proceeding.

Part 15 devices are unlicensed, low-power transmitters, such as garage door openers. The League argued that the general radiated limits for Part 15 devices are too high, and warns against the co-location of Part 15 devices and amateur stations due to the interference potential. Additionally, it would be virtually impossible to remove from service the Part 15 equipment that would then be permitted into the marketplace.

In the denial of the ARRL motion, FCC stated "Although we appreciate the League's fears of increased interference..., they are unfounded. For instance, we (FCC) are unaware of any interference to amateur operations from Part 15 trans-

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ELMER

by Rich Regent, K9GDF



Swapfests and other Social Events

SATURDAY & SUNDAY, AUGUST 5-6, 1989. Summerfest 89, sponsored by the Cedar Valley ARC. Held at the Teamsters Hall at 5000 J Street SW, in Cedar Rapids, IA. FCC exams on Sunday, Banquet n Saturday night. For more information, contact Cliff Goldsberry, KA0QEA, Summerfest 89 Chairman, (319) 365-8849.

AUGUST 11-13, 1989. 10-10 International Convention, 1989 hosted by the Milwaukee Chapter, and the 9th Call Area. For more details, see the ad elsewhere in this issue.

SATURDAY, AUGUST 12, 1989. 10th annual Rhinelander Swapfest, sponsored by the Northwoods ARC, ARES, Tomahawk Repeater Assoc. and the Rhinelander Repeater Assoc. Set up 7:00 am - Sales 9:00 am. Tickets \$1.00. Tables \$5.00. Reserved tables available until July 31. Amateur Radio Exams. (for more information, see ad last issue.

SUNDAY, AUGUST 13, 1989. Northwest Indiana Hamfest and Computer Fair, "New" Porter County Fairgrounds, Rte. 49 & Division Rd., Valpariaso, IN.

AUGUST 19, 1989. The 8th annual Green Fox A.R.C. Picnic/Auction starting at noon. (Rain date August 20). Free food, drink and visiting. Prizes will include a gift certificate for two for a flight on the Hot Air Balloon "Wisconsin", which is based in Ripon, WI and officially represents the State. As always, there is no admis-

sion to this event. The proceeds of the auction pay for the costs incurred. Bring some pocket money to bid at the auction. For donations or more information, contact Jack Bremer, KB9WC, Route 1, Box 142, Markesan, WI 53946. (414) 398-2247

SUNDAY, SEPTEMBER 10, 1989. BARS Ham-Computerfest, Joliet, IL. Bolingbrook ARC, c/o Ed Weinstein, WD9AYR, 7511 Walnut Ave, Woodridge, IL 60517.

SATURDAY & SUNDAY SEPTEMBER 16-17, 1989. Superfest 89, Exposition Gardens, West Northmoor Road, Peoria IL. Contact: Peoria Area ARC, P.O. Box 3461, Peoria, IL 61614.

OCTOBER 15, 1989. The 11th Annual Fall Ham & Computer Swapfest, Waukesha, WI., sponsored by the Kettle Moraine Radio Amateurs, Inc. Contact KMRA Swapfest, 313 Hillview Circle, Waukesh, WI 53188.

SUNDAY, OCTOBER 29, 1989. Late Fall Hamfest, at Lake County Fairgrounds, Grayslake, IL. contact: CAP, 15220 West Redwood Lane, Libertyville, IL 60048.

SATURDAY, NOVEMBER 4, 1989. 6.91 Friendly Fest, Serb Hall, 51st St. & Oklahoma, Milwaukee, WI. Contact: Milwaukee Repeater Club, P.O. Box 2123, Milwaukee, WI 531201.

SUNDAY, MARCH 25, 1990. Lamarsfest at Grayslake, IL. Contact Lamars, Box 751, Libertyville, IL 60048.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)
Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 735-6294.

GREATER MILWAUKEE DX ASSOCIATION
Fourth Monda of the month at 7:30 p.m. Contact Jerry Scherckenbach, N9AW, at (414) 481-8831 for meeting location.

GREEN BAY MIKE AND KEY CLUB
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORAINES RADIO AMATEURS
Second Friday, 7:30 p.m. at the Kettle Moraine High School, located near the intersection Hwys 18 & 83 in Wale, WI. Talk-in on 147.39 repeater.

LAKESHORE RPTR. ASSN.
Last Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MANITOWOC COUNTY RADIO AMATEURS
Board meeting, First Wednesday.
General meeting, Second Wednesday - both meetings held at 7:00 p.m. at the Red Cross Building, 1816 Washington St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB
Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

OZAUKEE RADIO CLUB
Second Wednesday - 7:30 p.m. - Saukville Community Center.

BADGER STATE SMOKE SIGNALS

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SUBSCRIPTIONS

1 year	(12 issues)	\$8.50
2 years	(24 issues)	\$16.00
3 years	(36 issues)	\$23.00

ADDRESS CHANGES AND CORRECTIONS should be sent to Kenneth A. Ebnetter, address above.

EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

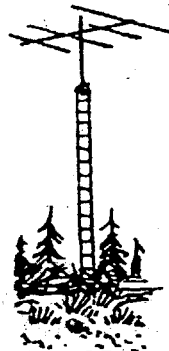
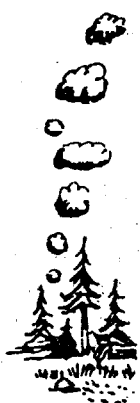
DISPLAY ADS or INQUIRIES REGARDING DISPLAY ADS may be directed to Harry Westlund or Kenneth Ebnetter, addresses above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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QCWA - WISCONSIN CHAPTER #55

For information about QCWA, contact Richard Regent, K9GDF. The Wisconsin Chapter holds Spring and Fall dinner meetings.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162

Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

RACINE MEGACYCLE CLUB

Second Monday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB

First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB

First Tuesday - 7:30 pm CST, 8:00 pm CDT - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI. ARES net - 146.64 MHz., Monday 7:30 pm CST, 8:30 pm CDT. 7277 Khz., Saturday 10:30 am.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB

Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB

First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC) MEDFORD

Usually the 2nd Thursday of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARES Net, Wednesday nights at 8:30 PM on 147.75/15. For info call Mike, N9GHZ at (715) 223-3996.

TRI-COUNTY AMATEUR RADIO CLUB

Second Sunday of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WASHINGTON COUNTY AMATEUR RADIO CLUB

Second Tuesday: ARES/RACES - 7:30 p.m., club meeting - 8:00 p.m., Town of Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Monday 7:30 p.m.

WATERTOWN AMATEUR RADIO CLUB

First Thursday of the month at 7:00 p.m., Eaton Corp., 901 s. 12th St., Watertown, WI

WEST ALLIS RADIO AMATEUR CLUB

Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN ASSOCIATION OF REPEATERS

Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: 1989 meeting dates: Thu., Aug. 17, Mon., Sep. 18, Tue., Oct. 17, Wed., Nov. 15, Thu., Dec. 14, 1989. Monday meetings in room 28B of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area. (Underlined are added or changed since last months BSSS.)

September 6, 1989	Milwaukee WI (MRAC)
September 16, 1989	Milwaukee, WI (BE)
October 4, 1989	Milwaukee WI (MRAC)
October 14, 1989	Eau Claire WI
November 1, 1989	Milwaukee WI (MRAC)
November 11, 1989	Menomonie, WI
December 7, 1989	Milwaukee WI (MRAC)
December 2, 1989	Stevens Point, WI
Monthly, First Sat.	Racine, WI
Monthly, Last Sat.	Tomahawk, WI
Monthly, Third Sat.	Loves Park, IL

Minnesota tests listed at end of column

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.75 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB - MRAC/VEC

1989 dates: Sep. 6; Oct. 4; Nov. 1; Dec. 7

Tests are Wednesday evenings at 7:00 p.m. at Wauwatosa East High School, North 74th and Milwaukee Avenue. Enter through the southmost

entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly so testing can be completed before 10:00 p.m. Bring your original license and three (3) good photocopies, plus two forms of identification, such as a driver's license, etc. A pen and \$4.75 for the exam fee is also required.

Register in advance on a 15 cent U.S. postal card; print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

BADGER EXAMINERS (BE) - MILWAUKEE

1989 examination dates: September 16.

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Number for coin telephone at exam location is 228-9994. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WA9UJK, 5119 W. Willow Rd., Brown Deer, WI 53223.

EAU CLAIRE, WISCONSIN

1989 examination dates: October 14

Facilities Management building on the University of Wisconsin - Eau Claire campus. Exams are given from 9 a.m. until noon. All walk-ins accepted. For further information, call Carl Searing, W9NW, at 715/834-1303.

MENOMONIE, WI (ARRL/VEC)

November 11, 1989.

Sponsored by the Dunn County ARC. Walk-ins only. Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomonie, WI. Contact: Dr. Thomas W. King, WF9I, c/o office, 444 S. Broadway, Suite 1, Menomonie, WI 54751. (715) 235-4747 (O), 235-5757 (H).

RACINE, WISCONSIN - ARRL/VEC

First Saturday of each month except during summer and the Christmas holidays.

Exams are given at the Red Cross Building, 4521 Taylor Ave., Racine, WI. Walk-ins permitted.

Send pre-registration to: William R. Firchol, Jr., N9DMP, 1912 27th Street, Kenosha WI 53140.

Last Saturday of every month.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No pre-registration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

Wisconsin Nets Association Ltd.

WISCONSIN NETS					
Net	WNA	Freq	UTC	CDT	Manager
BWN	Yes	3984	1100	0600	KC9CJ
BEN	Yes	3985	1700	1200	WA9W
W9BN	Yes	3985	2230	1730	K9ANV
WNN	Yes	3723	2300	1800	KA9TTM
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
Gr. Bay	No	72/12	0145	2045	WB9NRK
			Thu.	Wed.	
RACES	No	3993.5	1715	1215	WC9AAG
		USB Tues and Thurs			
RACES	No	3993.5	1300	0800	WA9OAY
		LSB Sunday			

Section Manager's notes

Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

N9GHZ, who now is Emergency Coordinator of Taylor County, has also volunteered to be EC for Clark County.

N9IKP is new District Emergency Coordinator for Central Wisconsin.

Milwaukee Radio Amateur's Club has amateur radio classes held August 30th through November 15th on Wednesdays, 7:30 p.m., at Wauwatosa East High School; contact KE9JJ for information. MRAC exams will be on September 6th.

Fox Cities ARC held their first Field Day at Clayton School with much success.

Green Fox ARC has made progress on their communications trailer.

Taylor County ARC donated over \$750 worth of Amateur Radio books and materials to libraries, and completed their new Directory of area amateurs.

WB9ZRE is very active in hot-air ballooning.

W9UGT, at the QCWA Chapter 55 junk-box auction in Wisconsin Rapids, got best bid for a barometer, held it up to his ear, and said, "It doesn't tick."

N9AW has interesting semi-automatic key collection, and is looking for more keys.

K9UTQ, who is Scoutmaster of Troop 171, will be attending the National Boy Scout Jamboree as Chief Traffic Operator of amateur station K2BSA. There will be 40 operators for the 12 stations, using tons of equipment and four 200-foot antennas. Laptop computers will be used to gather messages from scouts to send back home to their parents, relatives, and friends. The laptop computers will next be downloaded into a central computer periodically. Messages will then be organized and finally sent through the National Traffic System. Around 35,000 Scouts are expected to attend, along with 7,000 busy staff members roughing it in 15,000 tents. Keep the first week in August in mind for helping relay the Scout traffic from Fort AP Hill, Virginia. (Gene, how about a few photos? -

k9zz).

WNA Picnic and Fall Meeting, September 9th, at North Wood County Park, west of Wisconsin Rapids; K9FHI of the prize committee will have some surprises; everyone is welcome.

Net Managers should send monthly net reports to KC9CJ; the traffic offered category is now optional.

WIN/L NM W9NGP has seven regular check-ins and Ed says, "That's just enough to fill NCS slots for the entire week." Ed and the gang would enjoy hearing others on the net too.

W9NJH developed interesting idea for rotary coil antenna coupler.

Listen for new Waupaca repeater on 145.41 MHz.

Observation of the month: Asking dumb questions is easier than correcting dumb mistakes.

Glass Arm Report (Wisconsin Slow Speed Net)

Lee G. Andreas, N9BDL, Net Manager
Route 1, 7600 Highway D East
Lake Tomahawk, WI 54539-9500

During the second quarter of 1989, there were the usual "Old Faithfuls" holding the net together. Those checking in ten or more times are: N9BDL (88); Dwight, AG9G (75); Ed, W9NGP (54); Adrian, KA9-FVX (49); Jim, W9CXY (39); Tommy, KA9-YSK (32); Paul, N9FVN (10); and Keith, KY9P (10). The numbers in parenthesis are the total checkins for the quarter.

Some, but not all, of the "also heards" on the net were WG9J, WA9W, K9GDF, KC9CJ, K9UTQ, NS9Q, WC9O, W9IAL, KZ9V, K9LGU, and WB9ICH.

Two new calls heard were N9IAI and N9HWB. Both are named Bob. The former is from Waupaca and the latter is from Milwaukee.

We would like to hear more new calls on the net. If you recently upgraded to General Class or above and would like to see what CW traffic handling is all about, join us at 6:30 p.m. daily on 3.645 MHz. If you are a Novice or Tech and want to get your feet wet in traffic handling, or are just curious about traffic nets, try the Wisconsin Novice Net (WNN) at 6:00 p.m. daily on 3.723 KHz. I will probably be there, too. You don't have to be recently licensed to join in on any of the nets. Check the box at the beginning of this column for time and frequency of all of the Wisconsin nets.

The totals for WSSN for the second quarter are:

Checkins	Traffic Passed	Time (Minutes)
438	138	1345

That's all for now. See you again on these pages in the October issue, or on the

air, or better yet, in person at the fall eyeball meeting of the WNA. Check the next issue of BSSS for date, time, and place.

73, Lee

Wisconsin Intrastate Net - Early (WIN/E)

Larry Guthu, WB9ICH, Net Manager
706 West Jennings
New London, WI 54961

Hello, fellow WINners. I hope that all of you are having a nice summer so far. It sure has been a busy one for me so far, getting a lot of those honey-do projects out of the way, and doing a little work on the ole homestead, too.

As for the net, things seem to be rolling along smoothly, with no complaints from anyone so far. I would like to say that we have managed to fill a couple of empty spots on the board. We have a new Monday night NCS, that being Jim, AD9X. I hope that you will give him all the help and cooperation that you give the other NCSs. I would also like to welcome to our fine staff WG9J, Stacey, who is taking 9RN on Tuesday nights. Please give them all your cooperation, and make them feel right at home.

As some of you have noticed, once in a while our traffic load gets rather big, and we seem to have a hard time passing the traffic. If you can take some of it and pass it on two meters or by packet, it sure would help out. I know that some of the traffic is for some of those little out-of-the-way towns that no one has ever heard of, but if we can pass just a few of those, it helps deflate the offered traffic the next night.

Here are the top 10 check-ins for the month of June:

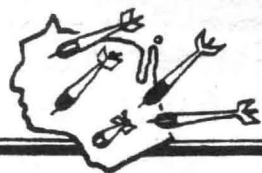
1	N9BDL	27
2	W9CBE	26
3	W9YCV	22
4	W9KLN	18
5	W9CXY, AD9X	14
6	K9GDF, W9NGP	13
7	AG9G	12
8	KA9FVX, WB9ICH	10
9	KC9CJ, WA9W	9
10	NØCLS, WG9J	7

There are a few new calls on the list, and that is good to see. I hope to see it continue to grow.

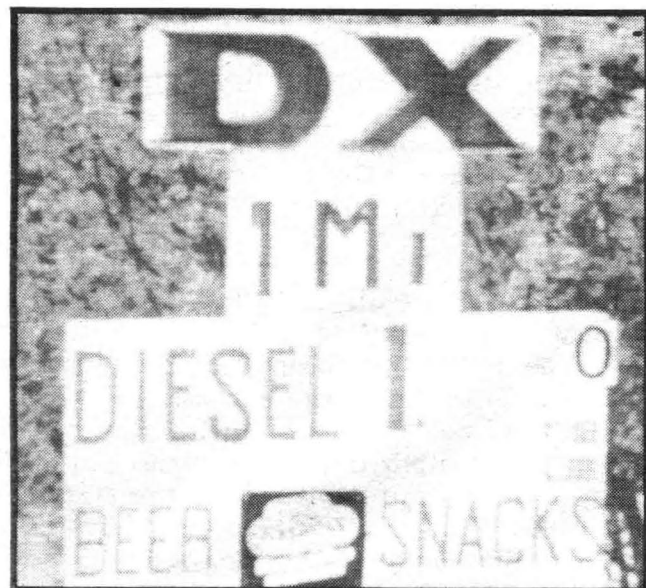
It was nice to see a lot of you at Stevens Point, and I hope to see more of you throughout the summer at hamfests and other gatherings.

For now, I guess that is about all, so keep cool and have a nice summer, and keep that old WINning spirit flying high.

73, Larry, WB9ICH



HERE and THERE



DX SPOTTING NETS may not be needed in some places: according to the sign in this photo, all one need do is drive another mile, and there it will be. It must be a contester, too; beer and snacks are available, as well. There's even diesel fuel for a generator!

Photo by John Frank, WB9TQG

WELCOME to The Communicator, a new addition to Badger State Smoke Signals. The Communicator carries news about Amateur Radio activities in the Greater Taylor County area, including news of and for the Taylor County Area Amateur Radio Club, and is edited by Mike Schoenfuss, N9GHZ, of Abbotsford, WI. Mike is a Public Information Assistant, and he serves as Emergency Coordinator for Taylor County. The Communicator's first edition as part of this newspaper is on page 10 of this issue. Welcome!

FCC ISSUED CALL SIGN UPDATE: The following is a list of most recently issued FCC call signs (July 1):

Dist	Group A Extra	Group B Adv	Group C Tech/Gen	Group D Novice
0	WU0U	KF0DT	N0KUY	KB0EXN
1	NX1F	KC1PL	N1GSO	KA1UFB
2	WR2F	KE2OE	N2JQR	KB2IEH
3	NV3I	KD3NS	N3HGK	KA3UXS
4	AB4PG	KM4UN	N4WET	KC4LNM
5	AA5MH	KG5VT	N5OTF	KB5KBE
6	AA6OU	KJ6WP	N6VOJ	KC6EQG
7	AA7AY	KF7VB	N7NBM	KB7IGG
8	WT8Z	KF8AE	N8KZQ	KB8HVA
9	WJ9D	KE9QZ	N9IQG	KB9DCM
GU	KH2K	AH2CE	KH2DW	WH2AMF
HI	**	AH6JU	NH6TV	WH6CEF
AK	**	AL7LI	NL7SD	WL7BVI
USVI	NP2E	KP2BQ	NP2DE	WP2AGY
PR	**	KP4QE	WP4VX	WP4IKT

**Indicates that all 2 X 1 call signs have been assigned in those areas.

- The ARRL Letter

HAM RADIO: TAKING IT TO THE PEOPLE: The first annual Amateur Radio Public Awareness Day will be held September 16. To make the general public more aware of the existence, purposes, and benefits of Amateur Radio, clubs and individuals will set up and operate public displays across the nation in schools, libraries, town halls, parks, fairs, and anywhere else an imaginative club can think of! Start planning your club's exhibit now! ARRL Headquarters can help. For tips on setting up your exhibit, check out the ARRL Special Events Communications Manual, available from ARRL HQ for \$5.00. (See page 176 of July QST for shipping costs.) Upon request, HQ will also provide you with promotional brochures for distribution to the public at your booth.

- The ARRL Letter

AMATEUR RADIO NEWSLETTER CONTEST: The Amateur Radio News Service (ARNS) is conducting its annual publication contest, aimed at identifying and recognizing superior performance in Amateur Radio journalism. The contest is open to all Amateur Radio club publications. Membership in ARNS is not required. Deadline for en-

Oral Argument Request Denied in 87-14

The Federal Communications Commission has denied the American Radio Relay League's request for oral argument before the full Commission with regard to General Docket 87-14, the reallocation of the 220 to 222 MHz band to commercial land-mobile interests. The FCC noted that "it is not its policy to grant routinely oral arguments in rulemaking proceedings, particularly in proceedings that have a full written record as is the case in this proceeding."

- The ARRL Letter

tries in the 1989 contest is August 31. Submit a copy of any issue of your newsletter published from July 1988 to June 1989 to ARNS, 11 S. LaSalle St., Suite 2100, Chicago, IL 60603.

- The ARRL Letter

PLEASE send articles and photos to
Badger State Smoke Signals!

Green Fox Picnic/Auction Aug. 19

Some of the goodies to be sold are inspected by some of the attendees at the annual Green Fox ARC's picnic and auction. The ever-popular event includes free food, drink and eyeball QSOs. This year's event (8th annual!) will be August 19 (rain date Aug. 20). Prizes include a hot air balloon ride! Bring some auction money! Details in "Swapfests", on page 2 of this issue.



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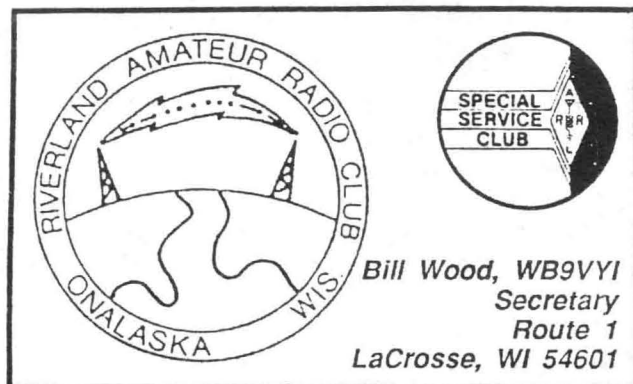
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Name: _____ Call (if any): _____

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☐ new ☐ renewal



Bill Wood, WB9VYI
Secretary
Route 1
LaCrosse, WI 54601

The Riverland Amateur Radio Club did not meet in July.



HERE and THERE

AN INVASION OF 10M: A situation has developed on 10 meters in the New York City area that we should all be aware of. The 10M Amateur Radio band has been invaded by a group of mobile and fixed stations that operate fleets of cars in an apparent taxi service operation. These stations have "adopted" 10M as their home for this unlicensed operation, in flagrant violation of the FCC rules.

Fleets of mobiles are operating in the Manhattan and Brooklyn areas, and are being dispatched by central dispatchers who announce a location for pickup of pas-

sengers and the fare that is to be charged. Much of the conversation is in one of several foreign languages.

This illegal operation has been monitored on various frequencies between 28.000 and 28.100, and specifically on 28.265, 28.275, and 28.525 MHz. Word is that any Amateur who dares to operate on "their" frequency is harrassed, even to the point of threats.

This information has come to us (10-10 International News) via one of our 10-10 members, Stew Johnson, KB2GDE, who is mounting a campaign to stop this illegal operation and flagrant violation of federal law. The ARRL and the FCC have been made aware of this situation....

- 10-10 International News
in Worldradio, August, 1989
:-----:

MARITIME MOBILE: Russ Fleming, WB9-NYG, Waunakee, is doing a short stint as radio operator aboard a ship in the Indian Ocean. Russ' base is Diego Garcia. He was going to try to do some hamming from there, but we have no word on whether he was able to locate a rig to use on the Amateur bands.

:-----:

ALAS, we have received no summary of the operation of the Amateur Radio station at the Governor's Conference on Emergency Management, which was held in mid-May in Oconomowoc. Sorry.

Central District EC Appointments Announced

Paul S. Holicek, N9IKP, District Emergency Coordinator for the Central District of Wisconsin, has announced the appointment of five new Emergency Coordinators. They are:

Mike Schoenfuss, N9GHZ, Clark County
Rich Maier, KC9NW, Marathon County
Jim Benak, KA9ACE, Portage County
Paul Holicek, Jr., N9IKP, Waupaca County, and

Raymond Bailey, WB9WKV, Juneau County.

The ARRL/Wisconsin Section ARES is fortunate to have these Amateur Radio operators as ECs for their respective counties, contributing their time and efforts in the Central District of the state.

Fred Wendt, W9ZAG, Section Emergency Coordinator for Wisconsin, has reaffirmed the fact that, although much of our severe weather communications work comes in spring and summer, other potential emergency situations, such as plane crashes, training exercises, or natural disasters, make these appointments a year-around responsibility. The importance of the EC and his county's ARES group in working with local emergency government is vital to improving the image of Amateur Radio in the community. The Central District is critical to the success of the statewide ARES network.



Paul S. Holicek, Jr., N9IKP

The Central District is in need of Emergency Coordinators for the counties of Adams and Marquette. If you are interested in these appointments, please contact either myself or the Section Emergency Coordinator, Fred Wendt, W9ZAG.

The Central District will be having a meeting of Emergency Coordinators in fall, with the time and location to be announced later in Badger State Smoke Signals. This meeting will be held to coordinate activities and share ideas about emergency communications in the Central District. This meeting will be open to anyone interested in ARES.

The Central District consists of these counties: Clark, Marathon, Wood, Portage, Waupaca, Juneau, Adams, Waushara, Marquette, and Green Lake.

-Paul S. Holicek, Jr., N9IKP
P.O. Box 442, Waupaca, WI 54981

The Old Family Album



In this photo, taken in 1965, are, left to right: Section Emergency Coordinator (SEC) Bernie Tower, K9ZPP, Milwaukee (now A16Q); Sherm Carr, W9NGT, Hartford; Gerald Galaska; and Milwaukee County Emergency Coordinator Bob Goldstein, K9KJT, Milwaukee. The Amateurs were being thanked by Galaska for donating maps of Milwaukee. This photo was published in the *Waukesha Freeman Saturday Review* on October 2, 1965, and is from the archives of Don Evenson, K9JYX, Baraboo.

Product Review

EASY ANTENNA FOR TEN METERS

Reviewed by Bruce Humphreys, KØHR
in Handi-Ham World

Handi-Ham Headquarters is evaluating a number of antennas which might appeal to our (Handi-Ham) membership. One of these is the "Sparky J-10B" antenna from Antennas West (2996 Cherokee Lane, Provo, Utah 84604). With ten meters opening up to fabulous DX, and available to Novice SSB operation, this a natural sky-hook to look at first!

The Sparky J-10B is, essentially, a J-Pole type antenna. Highly efficient, it needs no radials to operate well. The antenna itself is about 23 feet long, with 24 feet of high quality RG-58 foam coax already attached. Components of the antenna are all very high quality, and overall construction indicates that this is one antenna that will weather the elements for a long, long time.

To put up the antenna, you can: hang it down from a window that is more than 25 feet off the ground; support it horizontally from a window with a long piece of PVC pipe clamped to the window frame; or hang it from a tree or other vertical support. It hides very well when hung in a tree. Of course, if in the clear, you can be assured of best results.

I was able to put the antenna up in less than 15 minutes (which includes reading the instructions!) using Antennas West's "QRV-QL Antenna Installation System" (another great product). The far end is about 60 feet up, with the near end sloping down to about 30 feet. A short coax run to the rig (again, the coax is supplied and installed), completes the installation.

Plugging the antenna directly into the rig (a Radio Shack HTX-100), and measuring SWR with 5 watts output, produced significantly less than 2:1 over the portion of the band I was interested in. Signals jumped out of the receiver all over the band.

My first contact with the antenna (9 p.m. CDST) was with a ZL2 in New Zealand. To be sure, 10 meters is terrific these days, but it still is a thrill to work someone thousands of miles away with 5

(Please turn to page 13)

Storm Warning!!

By Scot Herrick, NB9C
5150 Anton Drive, Madison, WI 53719

Tonight is Wednesday, May 24th. As always, I am running late in much of what I am doing. I am past the deadline for my club's newsletter and my "Prez Sez" column - I won't make the column this month. It has been hectic here - but boring.

But tonight, it is an interesting evening. For the past four or five weeks, the weather people have been predicting cold, heat, sun and rain - all at the wrong time. Jane Bryant Quinn says of forecasting: "Give them a number and give them a date, but not at the same time." This year, the weather people have forgotten this rule.

Tonight, however, I finally believe the forecasters, because there was real physical evidence of the forecast: I saw it for myself on the doppler radar. The radar is showing a huge line of thunderstorms parading across the state like a thunderstorm drum and bugle corps. Since six this evening, there have been multiple Severe Thunderstorm Warnings issued for counties north of Dane, and a Tornado Watch issued for practically the whole state.

And it feels like a storm. It was hot today, and the humidity clung to you like a moisture-saturated blanket. The sun was beating down unmercifully, and the car was like a sauna. But the drought still hangs heavy in the parched fields and the water-starved wells. We have all seen this happen before: "It will rain, it will storm," say the forecasters. Twenty-four hours and two tenths of an inch later, we know we have been missed again. It reminds me of the boy who cried "wolf," this has happened so many times before. But, as in DXing, hope springs eternal - in this case, for rain.

After seeing the 6:00 o'clock news headline of the Tornado Watch, I quickly punch in the memory for the 146.88 repeater, located on the Baraboo bluffs. I'm late - things are moving along quickly already. John Offerdahl, KC9XH, is the net control, and has had the South Central Wisconsin Skywarn Net on a standby basis, already in place waiting for the severe weather to arrive in the repeater's coverage area. A little after six, his pager goes off - the weather service is calling. Yup, already there is a Severe Thunderstorm Warning out.

John quickly moves the net off the standby mode and into an active mode: all traffic on the repeater now goes through net control. He asks for reports of severe weather only, in the county affected. A couple of hams check into the net and are promptly told that severe weather reports only are needed, and that the net does not take check-ins. We want severe weather reports - not people checking in. Apparently, the Monday practice sessions at 6:30 in the evening are paying off - there is a

virtual silence on the system.

Then, the weather service asks for reports out of specific areas in the counties affected. John asks for reports - and sure enough, every time the weather service asks for reports, someone is there at the scene to tell what is happening. So far, nothing is severe - the worst is 35 MPH winds and quarter-inch hail. There was silence before, because these conditions do not match the reporting criteria for severe weather. What a great way to run a net! With nothing to report in the severe weather category, we are able to handle the weather service requests better: there is nothing severe, but what is it like at this place where we show big thunderstorms? And, we respond.

Sherm Carr, W9NGT, monitoring the Milwaukee weather service and radar, is very interested in what is coming his way. Reports are smoothly given from Madison to Milwaukee and back.

Then come reports from other Skywarn nets of severe weather in the northeastern part of the state. Fond du Lac is taking a beating from this weather system. As the storms move closer to south-central Wisconsin, the tension slowly rises. After all, we know that severe weather has occurred from this storm. We wait.

But even the reports of tornado touchdowns in other areas are handled quickly, quietly, and professionally. The best part about this net is the silence.

At about 9:00 p.m., the weather service calls off the severe weather watch in our area, and John puts the net back into the standby mode. The repeater is returned to general use. This storm produced severe weather - but not on our watch in our area. But, the rains came, and our hopes of beating a drought this year became more than wishful thinking.

I didn't say one word on the radio tonight - I didn't have to, because there was no severe weather to report. But, I participated, as did probably a hundred other hams and their families, listening for the fastest and latest word on the severe weather information supplied by amateur radio.

This is Amateur Radio public service at its best: responsive, aggressive, professional, and meeting the needs of the community. We all deserve to take the credit for a job well done - for John, KC9XH, for running a professional net; for Jim Waldorf, KB9AQQ, and Jim Anderson, N9AGH, for being at the National Weather Service's Madison office, for the numerous hams who were called upon to provide reports from specific areas. And, a special thanks must go to those of who participated and followed the severe weather reporting criteria - and said nothing.

After all, we, who had nothing to report - this time - did our jobs as well.

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Eau Claire Amateur Radio Club

**Bob Fallis, W9BAR,
Secretary
1851 McKinley Road
Eau Claire, WI 54703**

The next meeting of the Eau Claire Amateur Radio Club will be held on August 8, 1989. The meeting starts at 7:30 p.m. in room 21 of the Eau Claire Parks and Recreation Building, 1300 First Avenue. Non-members and visitors are welcome.

MINUTES OF THE JULY MEETING

The meeting was called to order at 7:40 p.m. by President Jerry Marx, NG9A. Twenty-one members were present.

The minutes of the June meeting were read and approved. There was no financial

report.

Bob Knutson, W9BUG, reported that the new transceiver has been installed in the Emergency Center. Members that normally man the center during an emergency are asked to familiarize themselves with its programming and operation.

We are in need of traffic handlers. The Badger State Sideband Net has had problems getting someone to take traffic in Eau Claire. Both high frequency and two meter operators are needed.

Dave Hanson, K9ZVZ, reported that the 144.87/145.47 repeater is now operational. It is an open repeater, with carrier access and emergency power. All operators are encouraged to use it.

The balance of the meeting was used to finalize our Hamfest plans for the 15th.

The meeting was adjourned at 8:20 p.m.

Lunch and coffee were served after the meeting.

Respectfully submitted:

Bob Fallis, W9BAR, Secretary

FCC Denies ARRL Motion for Stay in Part 15 Revision

(Continued from front page)

mitters in operation between 1.705 - 30 MHz. The large number of licensed users effectively preclude the general operation of Part 15 devices.... Similarly, it is not likely that this situation will change. Within the band 30 - 900 MHz, the low emission levels permitted for Part 15 transmitters effectively preclude the operation of these devices except in relatively shielded areas or on vacant bands. Thus, the potential for Part 15 transmitters to cause interference to amateur operators is self-limiting." FCC stated that interference "does not appear" to be a problem for these devices.

ARRL Counsel, Chris Imlay, N3AKD, filed an emergency motion for stay with the U.S. Court of Appeals for the DC circuit on June 20. The Court of Appeals denied the motion June 21. Thus, the new FCC Part 15 rules are now in effect. The FCC has not ruled on the merits of the various petitions for reconsideration, including the ARRL's, that have been filed in this proceeding.

- The ARRL Letter

ITU Conference Adopts Schedule for WARC-92

The ITU Plenipotentiary Committee has adopted a schedule of future conferences, at least one of which is of direct interest to Amateur Radio: a World Administrative Radio Conference for Dealing with Frequency Allocations in certain Parts of the Spectrum. It is scheduled for the first quarter of 1992 in Spain, and is tentatively slated to last four weeks and two days. (By contrast, WARC-79 lasted more than ten weeks.)

The precise agenda of the 1992 Conference will not be known until it is established by the ITU Administrative Council. A clue to its likely extent is that the Administrative Council is to take into account "The Resolutions and Recommendations of WARC HF-BC-87, WARC MOB-87, and WARC-ORB-88 relating to frequency allocations; in addition, this conference may consider defining certain new space services and consider allocations to these services in frequency bands above 20 GHz."

The WARC HF-BC-87 recommendation and WARC MOB-87 resolution were discussed in the August 1987 and January 1988 QST editorials. The relevant portions refer to the desirability of a conference to consider "...the possibility of extending the HF frequency spectrum allocated exclusively to the broadcasting service" and "...revising the Table of Frequency Allocations around 1 - 3 GHz to better accommodate the mobile-satellite and the mobile services." As for WARC-ORB-88, it resolved that the introduction of satellite High Definition Television (HDTV) should be

made by a frequency allocation on a worldwide basis, and that a future conference should consider the frequency range 12.7 to 23 GHz for the choice of an appropriate band; and further, that a future conference, to be held no later than 1992, should select a band or bands in the range 500 MHz to 3 GHz with a view to a possible allocation for a Sound Satellite Broadcasting Service (SBSS).

The frequency ranges possibly subject to reallocation are:

- * HF (3 - 30 MHz)
- * 500 MHz to 3 GHz
- * Above 12.7 GHz.

However, the ITU Administrative Council may limit these ranges further when it adopts the agenda at a meeting in November or a subsequent meeting scheduled for next spring.

Another future conference on the schedule adopted by the Plenipotentiary is a World Administrative Radio Conference for Dealing with Matters Connected with the Broadcasting Service in the HF Band, called for in Geneva in the first quarter of 1993, and tentatively to last four weeks. This may hold some interest to Amateur Radio, because of the differences in allocations between regions at 3.95 - 4.0 MHz and 7.1 - 7.3 MHz.

- The ARRL Letter, published
by the American Radio Relay League,
225 Main Street,
Newington, CT 06111

ARRL Executive Committee Meets

The Executive Committee of the American Radio Relay League (ARRL) met on June 24 in St. Louis. Among EC actions were:

* A request for the Legal Strategy Committee to review the text of H.R. 911, a bill to encourage states to provide protection from liability to volunteers.

* A vote to support amendment of the Communications Act of 1934 to make multilateral, as well as bilateral, agreements a basis for the issuance of reciprocal operating permits to aliens. It then voted to oppose amendment of Section 4(f)(4)(j) of the Communications Act of 1934 to eliminate the requirement that individuals and organizations receiving reimbursement from examinees maintain records and certify annually to the Commission that all costs for which reimbursement was obtained were necessarily and prudently incurred.

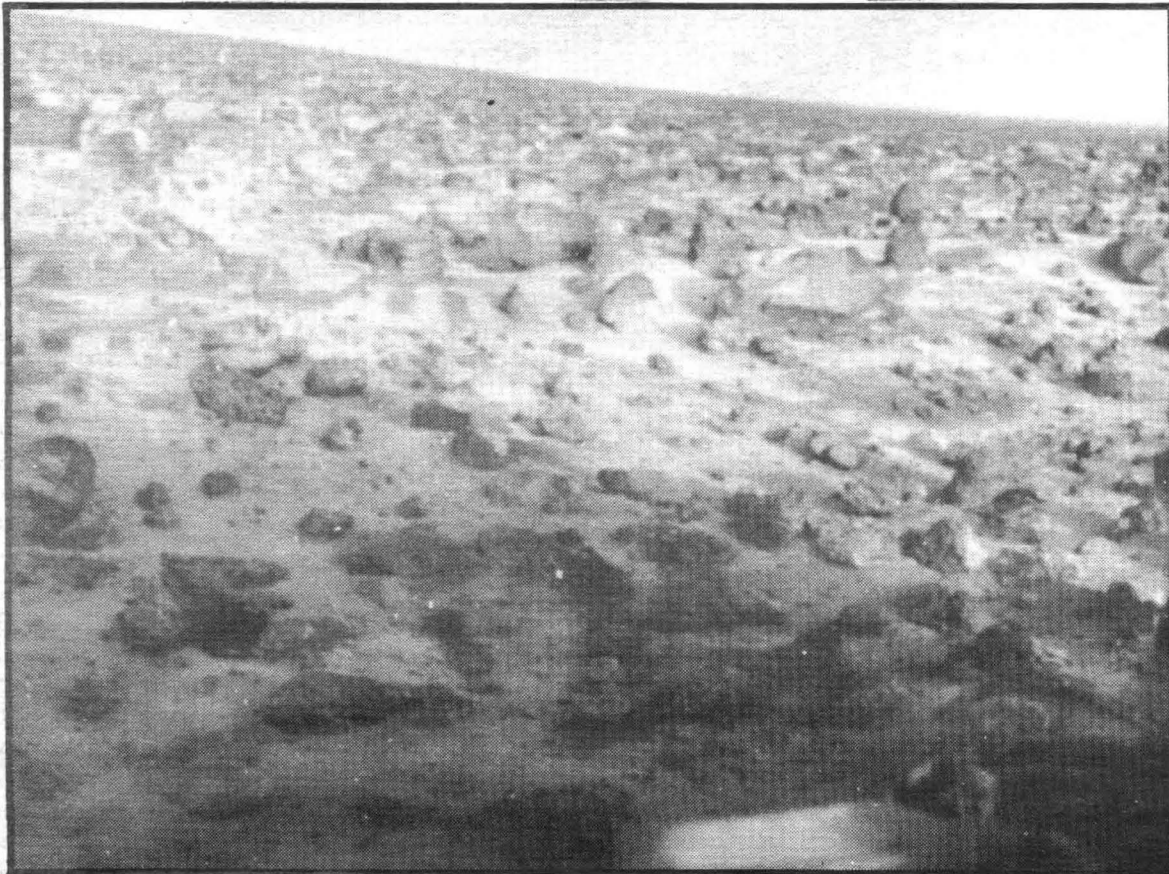
* The adoption of a statement of policy limiting access to the National Repeater Data Base maintained at ARRL Headquarters.

The Executive Committee also reviewed the status of a number of ongoing FCC, international, and organizational matters. The full text of the minutes will appear in August QST.

The next meeting of the Executive Committee is tentatively scheduled for the weekend of October 21-22.

-The ARRL Letter

A Nice Place to Visit?



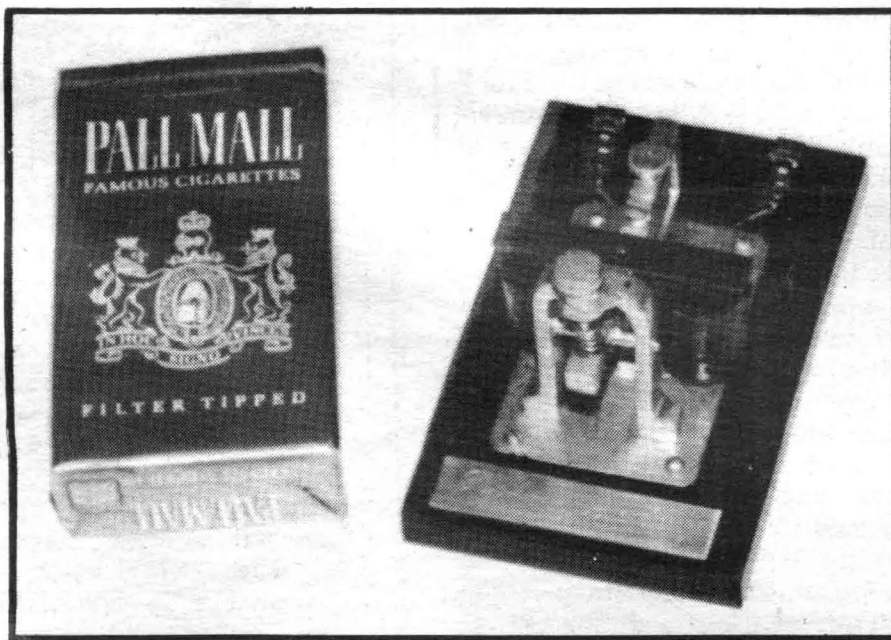
With the celebration in July of the twentieth anniversary of the first manned lunar landing (Apollo 11), we thought our readers might enjoy a glimpse of some of the United States' other space exploration efforts, both manned and unmanned. This high-resolution photo of the surface of Mars was taken by Viking Lander 2 at its Utopia Planitia landing site on May 18, 1979, and relayed to Earth by Orbiter 1 on June 7, 1979. It shows a thin coating of water ice on the rocks and soil. The time the frost appeared corresponds almost exactly with the buildup of one Martian year (23 Earth months) before. Then it remained on the surface for about 100 days. Scientists believe dust par-

ticles in the atmosphere pick up bits of solid water. That combination is not heavy enough to settle to the ground. But carbon dioxide, which makes up 95 percent of the Martian atmosphere, freezes and adheres to the particles and they become heavy enough to sink. Warmed by the Sun, the surface evaporates the carbon dioxide and returns it to the atmosphere, leaving behind the water and dust. The ice seen in this picture, like that which formed one Martian year prior, is extremely thin, perhaps no more than one-thousandth of an inch thick. It will be a nice place to visit and, who knows, maybe eventually someone will live there, too.

NASA photo

The KA9GNY Mini-Sounder

Bob King, KA9GNY, Baraboo, is mighty handy with his hands. He's a wood carver, and has restored carvings on a circus wagon. He's also deft with metal; a retired telegrapher, he built the mini-sounder shown here. It works!



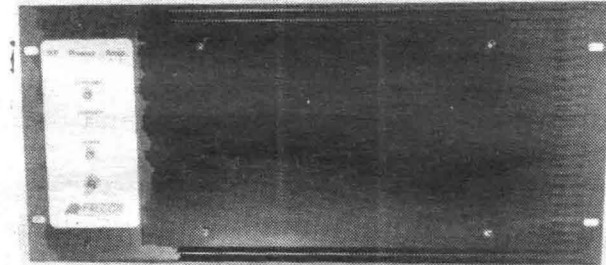
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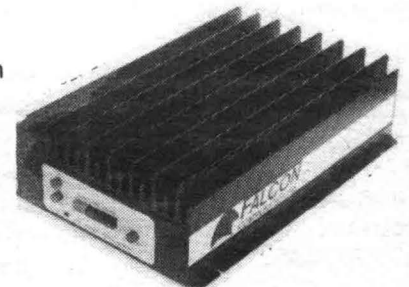
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The Communicator

News of Greater Taylor County Area Amateur Radio Events and Activities

Mike Schoenfuss, N9GHZ, Editor, P.O. Box 401, Abbotsford, WI 54405 • Phone (715) 223-3996

MONTHLY CLUB MEETING-

TAYLOR COUNTY AREA AMATEUR RADIO CLUB

Thursday, August 10. Location: Emergency Government meeting room, basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, Wisconsin. The meeting starts at 7 p.m. sharp!

AGENDA AND PROGRAM FOR AUGUST MEETING

The program will consist of a presentation by Mike Schoenfuss, N9GHZ, Taylor County Emergency Coordinator (EC), on severe weather net operations, procedures, and guidelines. Please bring along your copy of the updated Taylor County ARES SKYWARN Severe Weather Watch Net Operations Procedures and Guidelines to the August meeting, so you can follow along with it. There will be very few, if any, extra copies available at the August meeting itself, so don't forget!

CLUB NEWS

The treasurer's report at the July meeting indicated a balance of \$1,088.91 in the checking account.

The July meeting started an hour early, at 6 p.m., and concluded shortly after 7 p.m., and the originally scheduled program for the July meeting was postponed, so that those members wanting to attend the Air Force's public information meeting at 7 p.m. in the County Board room could do so.

The Air Force wants to locate a GWEN (Ground Wave Emergency Network) automated relay node and tower in the Chelsea area of Taylor County, somewhere between Medford and Rib Lake. Most of the members in attendance at the club meeting also attended the USAF meeting. Air Force engineers are to contact us in writing regarding the possibility of any restrictions to amateur radio operators in the area of the tower, in terms of operating frequencies, output power levels, and hours of operation.

The GWEN node will utilize LF frequencies (150 - 375 KHz) and UHF frequencies (220 - 450 MHz).

FIELD DAY

Those who visited the Field Day site for varying lengths of time included W9LEE, N9GHZ, WD9FWP, NZ9U, WD9ITI, KA9UXN, N9FZD, and KA9WDX. Operators included WD9ITI, NZ9U, and KA9WDX. Only a couple dozen contacts were made from the Field Day site, including Alabama and Canada. The limited activity was probably due to several factors, including band conditions, limited antennas and transceivers, and limited number of operators for the rigs.

TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE NEWS

from Mike Schoenfuss, N9GHZ,
Taylor/Clark County
ARES Emergency Coordinator

Don't forget to check into the weekly ARES Net, held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). You're also encouraged to volunteer for net control duty for the net.

N9GHZ was recently appointed ARRL ARES Emergency Coordinator for Taylor County, in addition to his present responsibilities as EC for Taylor County.

REPEATER NEWS:

147.75/15 MEDFORD REPEATER

The bill for the tower work has not yet been received. AD9W, Mosinee, told N9GHZ that the owner of Spectrum Communications bailed out and moved to Florida, where he is employed as an engineer for either a radio or TV station.

Many thanks to WD9C for cutting down some of the undergrowth around the shed at the base of the tower where the repeater is located.

W9LEE is donating a repeater back to the club. It is presently located at Hayward, and Rollie will start working on it when he gets it at his place. With the new Sinclair duplexer, we have outgrown our present rack.

At the July meeting, the membership voted to purchase two items from Spectrum Communications: the TRA-1 Time-Out Timer Reset Annunciator (courtesy tone beeper) Board for \$24.95, and the FL-6 VHF Receiver Front-End Preselector/Fil-

ter/Preamplifier for \$117.00, with the total bill coming to \$147.90, including shipping costs. It is hoped that the FL-6 device will help improve our repeater receiver's sensitivity, and possibly eliminate the RFI that has been plaguing it. Spectrum has indicated that we can return the FL-6 if it does not improve our situation, or we may possibly be able to sell it to another repeater group where it may do some good. Marshfield has also been looking into getting this device for use on their 2-meter repeater.

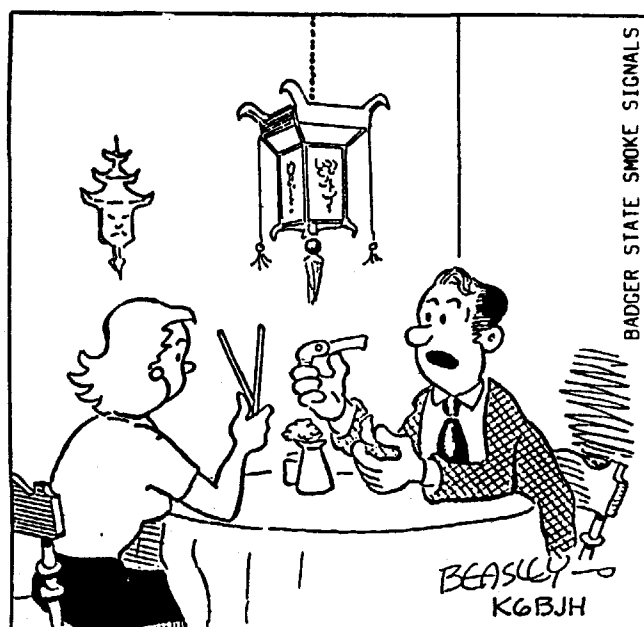
A check with Hamtronics has confirmed that it would not be in our best interests to use a preamplifier on the Hamtronics receiver presently in use in our repeater. The Janel Laboratories preamplifier, originally purchased with the repeater, was sold for \$20.00 at the Eau Claire Hamfest.

WA9ZCO will put the original VHF Engineering transmitter back into the repeater in the near future, and remove the Swan transceiver that has been temporarily in use for that purpose.

The membership tabled any decision on obtaining some Motorola equipment to use on the repeater on a trial basis.

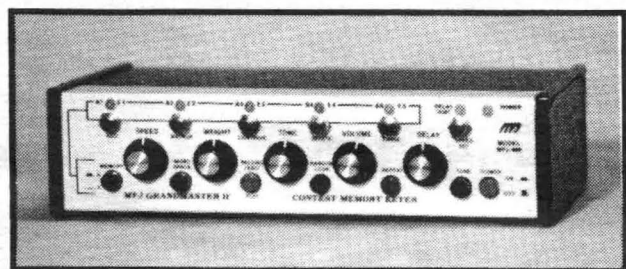
144.67/145.27 DORCHESTER REPEATER

A reminder to all that the RAIN Dial-Up Service weekly amateur radio news bulletin can be heard on this repeater, shortly after the close of the Taylor County ARES Net on the Medford repeater on Wednesday evenings.



THIS FORTUNE COOKIE SAYS:
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New Products



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- MFJ news release

When inquiring about or ordering products described in Badger State Smoke Signals ads or in "New Products", be sure to mention you saw the item in Badger State Smoke Signals.

SECOND BIENNIAL 10-10 INTERNATIONAL NET CONVENTION

HOSTED BY THE MILWAUKEE CHAPTER OF THE 10-10
INTERNATIONAL NET INCORPORATED.

AUGUST 11TH THROUGH THE 13TH AT THE GRAND HOTEL, MILWAUKEE

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WISCONSIN CHAPTER 55

Roy A. Pedersen, K9FHI, Secretary
510 Park Street
Juneau, WI 53039

MINUTES OF THE SPRING
ANNUAL MEETING, JUNE 10, 1989

The dinner meeting was held at the Chalet Motel at Wisconsin Rapids, and was called to order by Chairman Ed Seruga, KE9JJ. A moment of silence was observed for our recent Silent Key, Richard Granzow, KA9YUZ, and for others in nursing homes and those who are or have been ill.

Secretary Roy Pedersen, K9FHI, announced the new members who have their certificates. They are:

Mike Roy, K9GU
Michael Peters, W9GHY
Gerald Stockinger, K9G0Z
Lawrence McCalvy, WA9JMO
Gary Sharbuno, WI9M
Leland Parsons, W9TQD
Edward Wruk, K9FQC, and
Bill Kimball, WA9OAY.

Rich Regent, K9GDF, presented a 50-year certificate to Harold Ferguson, W9IEM, and a 50-year and continuous membership to Charlie Dawson, W9CUW. This was followed by the drawing for door prizes so the women could get to their afternoon program.

Gene Santoski, K9UTQ, gave a nice presentation of slides and commentary on Joe Pavak's Radio Museum.

Roy Pedersen, K9FHI, had talked with Betty, K9GJC, and she said to pass along her greetings to the group.

Travis Baird, W9VQD, gave a report on national business, financing for FCC, and he asked all members to be sure to cast their ballots.

In the business meeting, the minutes of the October 1, 1988 meeting were read and approved on motions by Gene Santoski, K9UTQ, and Fergie, W9IEM. Motions carried. The treasurer's report was given, and was approved on motions by Travis Baird, W9VQD, and Bob Baird, W9NN. The motion carried.

The date shown on the October 1, 1988 Fall Meeting stated that the date for the 1989 Spring Meeting was to be June 3; that was changed to June 10 due to other conflicting doings.

The Fall Meeting will be held in Okau- chee on October 7, 1989; details will fol- low later. The next Spring Meeting will be June 7, 1990, and may be held in Fond du Lac. W9BTY is checking into this.

Discussion was held on having QCWA materials at Swapfests, and it will be tried at Madison, the first Sunday in April, in conjunction with the ARRL table. Applica- tions and eyeball QSOs will be available. Bob Baird, W9NN, Frank Guth, W9BCC, and Rich Regent, K9GDF, will be at the Ste- vens Point Swapfest June 18 to promote QCWA.

3:10 - Recess for Board meeting.

3:20 - General meeting resumed.

A motion to adjourn was made by Verne Teske, W9RYA, and seconded by Fred Linn, W9NZF. The meeting was ad- journed at 3:25 p.m. An auction followed.

BOARD MEETING

The following were present:

Ed Seruga, KE9JJ
Travis Baird, W9VQD
Bob Baird, W9NN
Uke Minaga, W9DU
Roy Pedersen, K9FHI
H. Ferguson, W9IEM
Rich Regent, K9GDF

The fall meeting banquet will be fam- ily style only, and ordered from the menu. Uke, W9DU, suggested that board members have applications for QCWA membership so they can talk to prospective members. The September mailing (of the chapter) will feature this, as well as on the air nets, etc., as much as possible.

Roy A. Pedersen, K9FHI

Secretary, Wisconsin Chapter 55 QCWA

Free Video to Ham Clubs

The International Mission Radio Association (IMRA) announces the avail- ability of its 8-minute promo, along with the "Joe Franklin Show" videotape. The IMRA provides a daily, except Sun- day, two-hour traffic net to help over- seas missionaries of all denominations contact their families and friends. The organization consists of 1,000 hams in forty countries; the net handles 12,000 pieces of traffic annually.

The videotape "The Joe Franklin Show" videotape is an edited version of the talk show which aired on WWOR-TV on January 13, 1989. WWOR reaches 1,200 cable systems throughout the country. The potential audience is 10 million. The video contains only the amateur radio segment, during which the president of IMRA, Fr. Mike Mullen, WA2KUX, answers questions and des- cribes the work of the group. At the start of the tape is the 8-minute IMRA promo, showing people at their rigs and various disasters.

The IMRA will loan a copy of the video to any ham who wishes to view it. Over 200 individuals and clubs have either purchased or borrowed the orig- inal video, "Making Contact". This new video is considered much better. The tape is also available for purchase at \$10.00 a copy. Interested parties can contact Fr. Michael Mullen, St. John's University, Jamaica, NY 11439, tele- phone 718/990-6744.

In its 25 years, the IMRA has pro- vided \$50,000 worth of radio equipment, much of it donated by members, to mis- sioners. The IMRA is very grateful to hams for their kindness, and seeks any equipment in good operating condition for those still in need. Anyone interest- ed in donating equipment should write to Warren Mulhall, WA2BPV, at 16 Iro- quois Road, Manasquan, NJ 08736, with a description of the rig and its condi- tion.

- IMRA news release

Badger State Smoke Signals can always use interesting articles and good, sharp photos about Amateur Radio. Send 'em to the edi- tor, address on page 2.

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Repeater Profiles



By John W. Frank, WB9TQG
P. O. Box 5113
Madison, WI 53705

The Sheboygan County Amateur Radio Club, Inc. repeater has come a long way since the early 1970s, when it went on the air from a hilltop near Plymouth, using equipment from VHF Engineering. Since 1980, the repeater has been located southwest of Sheboygan.

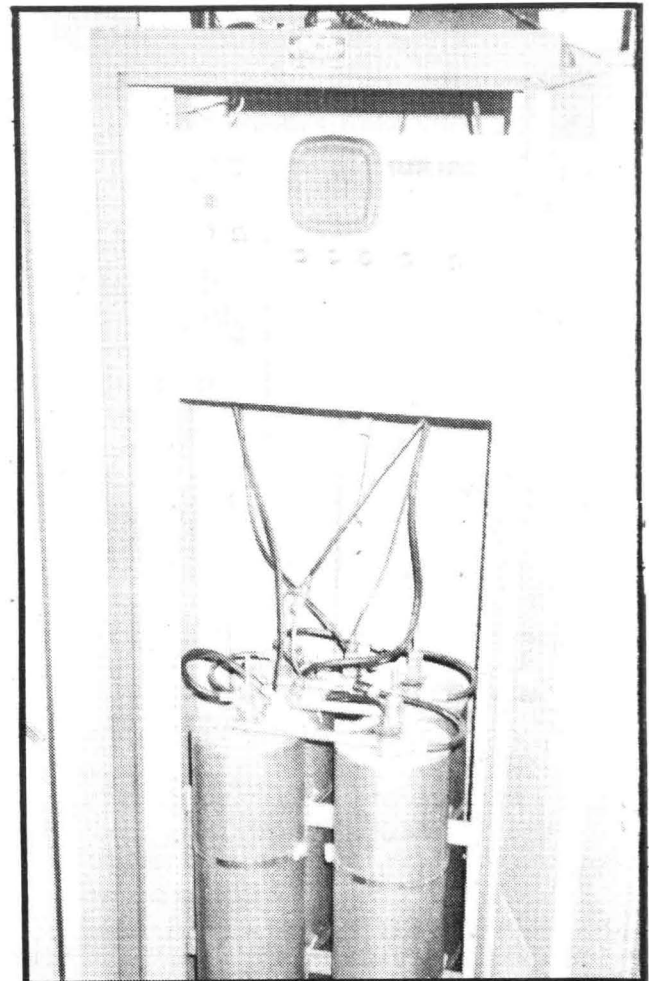
The main repeater is a Motorola VHF high band repeater, retuned for two meters. The backup repeater is a Spectrum Communications SCR-1000. Other equipment includes an MRC-100 microprocessor repeater controller. The antenna is a Super Stationmaster, mounted atop a 312-foot guyed tower. Autopatch is available for members only. At the present time, emergency power is available for the backup repeater only. In the unlikely event that both the main and backup repeaters are off the air, the Sheboygan County DX Association repeater (144.51 MHz input, 145.11 MHz output) is available for emergency communications. Both repeaters are carrier access. Users don't need a subaudible tone or tone burst; just set your transceiver to transmit on 147.66 MHz and receive 147.06 MHz.



Julian Jetzer, KR9S, is shown here doing maintenance on the Motorola repeater.

The Sheboygan County Amateur Radio Club has a monthly newsletter, edited by W9VCL. Club meetings are the second Tuesday of the month at 7 p.m. in the Sheboygan Red Cross/Boy Scout Building. Annual dues are \$15.00. For more information about the Sheboygan County Amateur Radio Club, contact Julian Jetzer, KR9S.

I almost forgot to mention the callsign



The backup repeater is a Spectrum Communications SCR-1000.

— Photos by John W. Frank, WB9TQG

of this repeater; the CW IDer identifies this repeater as W9RF. But I can't forget the really friendly Hams who put me in touch with the people who could provide the information for this Repeater Profile.

Thanks again, and 73 to all the Hams I spoke to in Sheboygan last month.

Wisconsin Nets Association Ltd.

Wisconsin Intrastate Net - Late (WIN/L)

Ed Rice, W9NGP, Net Manager
W-126 Lang Road
Oconomowoc, WI 53066

As I reported at the WNA meeting at Stevens Point, I am delighted to be the only net manager who does not have any net control positions open. Again, I extend my thanks to the net control stations for their faithful service. Here is our NCS schedule:

Sunday	AG9G
Monday	W9CBE
Tuesday	W9UW
Wednesday	W9YCV
Thursday	K9BED
Friday	W9NK-W9CBE

Saturday W9NGP

The station with the most QNI for the quarter is W9YCV, with 71. W9CXY again has the most times 9RN, with 30.

We are looking forward to lots of Boy Scout traffic this summer.

73, Ed



"THE MONITOR LOOKS OK, BUT HE WON'T BE ABLE TO USE DISC DRIVE UNTIL THEY INVENT THE WHEEL"

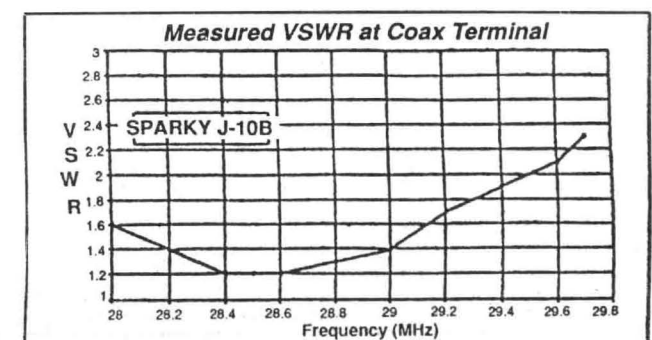
Product Review

(Continued from page 7)

watts and a very simple antenna!

I have no doubt that this antenna will be a permanent part of my shack — and would be a good antenna for Handi-Ham members (and any amateur — Editor) wishing to get into the ten-meter action quickly, efficiently, and inexpensively.

Sparky J antennas are available from Antennas West for other bands from UHF to 20 meters. The cost for the J-10B was \$39.95 plus shipping.



SWR curve — Sparky J-10B 10 meter J antenna by Antennas West.

Getting Reconnected to the World

In 1979, while working as a mechanical engineer, I started experiencing all types of bizarre reactions from exposure to industrial chemicals. In 1981, everything came crashing down health-wise, and I was finally diagnosed as having a disease called Chemically-Induced Immune System Disregulation. Patients with this disease have been referred to as being "allergic to the 20th century".

The symptoms of the disease include severe systemic reactions within seconds of exposure to all chemicals, synthetics, newsprint, books, magazines, detergents, fabric softeners, many foods, and all forms of pollution (auto exhaust, smoke, lawn chemicals, etc.).

As a result of these reactions, I have had to revert to the life of a recluse, living in one room which has been stripped of synthetics, and avoiding all exposure to the modern chemical world. The only other location providing relief is out in the clean open air, up-wind of anybody or anything. Oxygen must be used while riding in vehicles in an attempt to slow the rate of reaction onset.

Being a real person, the emptiness and the isolation were nearly unbearable, and really took their toll. It was as if all the things I was ever able to do no longer meant anything. I was pushed into a one room prison in my own home, cordoned off from every person, every place and everything I needed for social and intellectual contact.

A friend of mine, Wayne (KD8LC), who is an electrical engineer and Amateur Radio operator, suggested Amateur Radio as a means to beat the isolation.

I had great reservations about the fumes that the radio equipment would generate, since I have had to use an isolation box for other items. He assured me that this could be done if needed, and gave me some code practice tapes to get me started.

About this time, I learned of an organization called the Courage Handi-Ham System. I placed a telephone call, and discovered the organization is part of the Courage Center of Golden Valley, Minnesota, which is a non-profit, United Way organization. Their

goal is to use Amateur Radio as a means of rehabilitation for the handicapped. They provide study materials, and offer an equipment loan/rental program for beginning Handi-Ham students, Novices and Technicians. They also assist in equipment adaptation for special handicap needs, such as blind, mute, or deaf radio operators, and conduct one-week radio camps to assist those who must overcome major study and testing obstacles.

With their help, and with three weeks of study, I was ready for the Novice test, and had arranged for a special outdoor Novice test exam session, where I could avoid all of the exposures that would make the testing process dangerous for me. The sun was shining on me that morning, and I passed with flying colors. The one-month wait for the license seemed like an eternity, but it finally arrived.

Handi-Hams made arrangements for the use of a Ten-Tec Century 21 CW rig. In the meantime, a new acquaintance, Hank (WB8-AXI), put a 40-meter antenna up for me. So, when the Ten-Tec arrived, I was ready! The all-metal construction, heavy heatsink design, and cool operation of the rig, allowed me to use the rig without requiring any isolation.

With the help of many VECs, and the local Handi-Ham volunteer (and ARRL Section Manager), George (WB8BGY), I have been able to arrange for two more successful outdoor licensing exam sessions. The last outdoor exam (General class) was taken under cover of a makeshift tarp lean-to in 35 degree rain at the home of Allan (WD8MPQ). Al's ingenuity saved the day, and I can't remember being as excited about passing any test in my whole life! Again, the Handi-Ham group was there with a Yaesu FT-757GX phone rig with a massive heatsink design and cool, odor-free operation. It was like real freedom at last, with the world at my fingertips.

Amateur Radio has changed my life! No longer do I need to suffer the isolation and emptiness as before. There are thousands of people out there in radio land, just waiting to chat or discuss technical ideas. I have met people from all around the world, from all walks of life and all backgrounds; literally some of the finest people I have ever met. Their kindness and generosity can never be repaid. I can now talk to people who are able to do most of the things that I am unable to do. They are unwittingly keeping me re-connected to the world!

While it is unknown if I will ever make a complete recovery, I will be forever grateful to the Amateur Radio community and the Courage Handi-Ham System for its assistance, generosity and dedication to helping those of us who are physically disadvantaged. They have helped us discover new abilities, become equal among equals, and experience the magic of Amateur Radio by reaching out to others through all that distance and space.

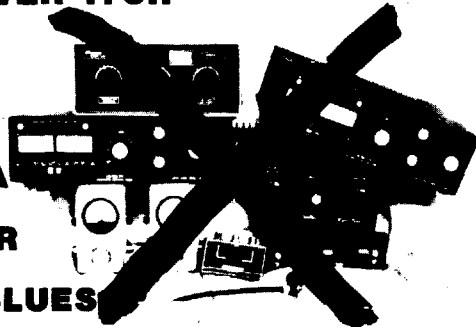
As a delightful side benefit, my wife Diane (KB8DLF), and 12-year-old son Eric (KB8DLH, General class by age 11), have joined the amateur ranks. This has allowed us to develop a common interest and an extremely close bond that most families fail to develop, even when there are no handicaps involved. Who could ask for more?

- John L. Shook, N8IUM, Jackson, Michigan in
Handi-Ham World, Spring, 1989,
published by Courage Hand-Ham System,
3915 Golden Valley Road, Golden Valley, MN 55422

JANUARY 4, 1983

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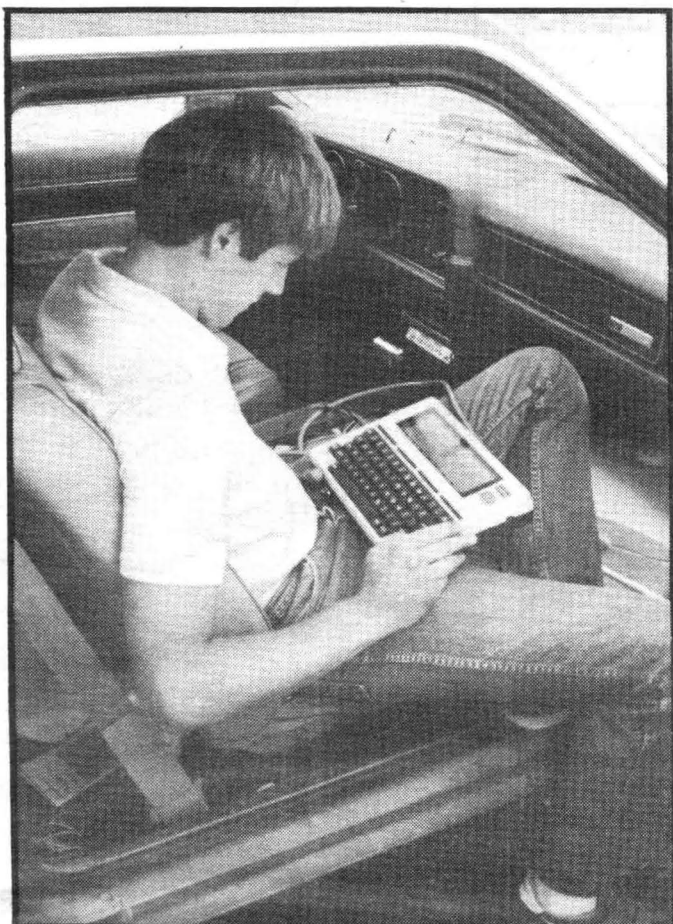
THE BOTTOM LINE: "MAXCOM WORKS"

Help Wanted

An advertising manager is needed by Badger State Smoke Signals. This is not a "job" as such; it's something for part time. A small commission is paid, as are certain expenses. If you are a Radio Amateur, have some time on your hands, and like a challenge, contact BSSS Chairman Ken Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901, or call Ken at (608) 742-3560.

Field Day 1989

Yellow Thunder ARC - WB9FDZ/9
Owen Park, Columbia County, WI



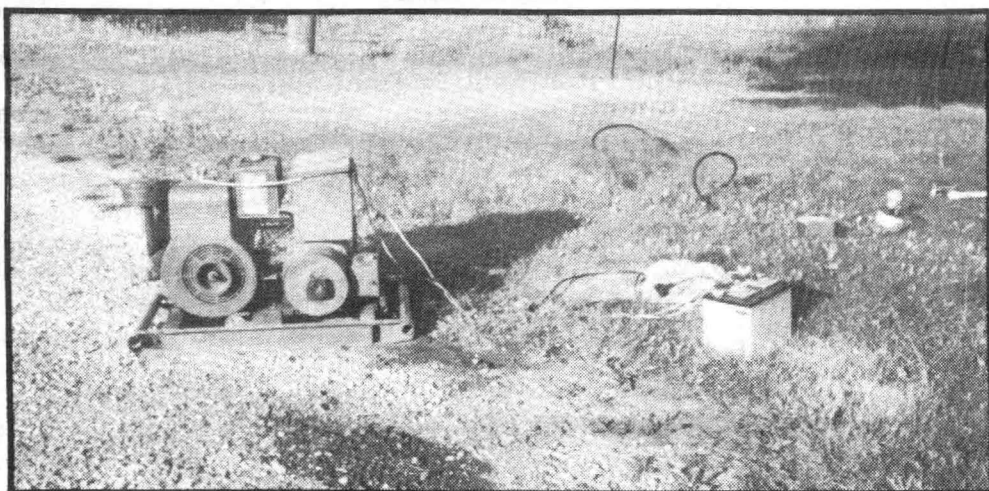
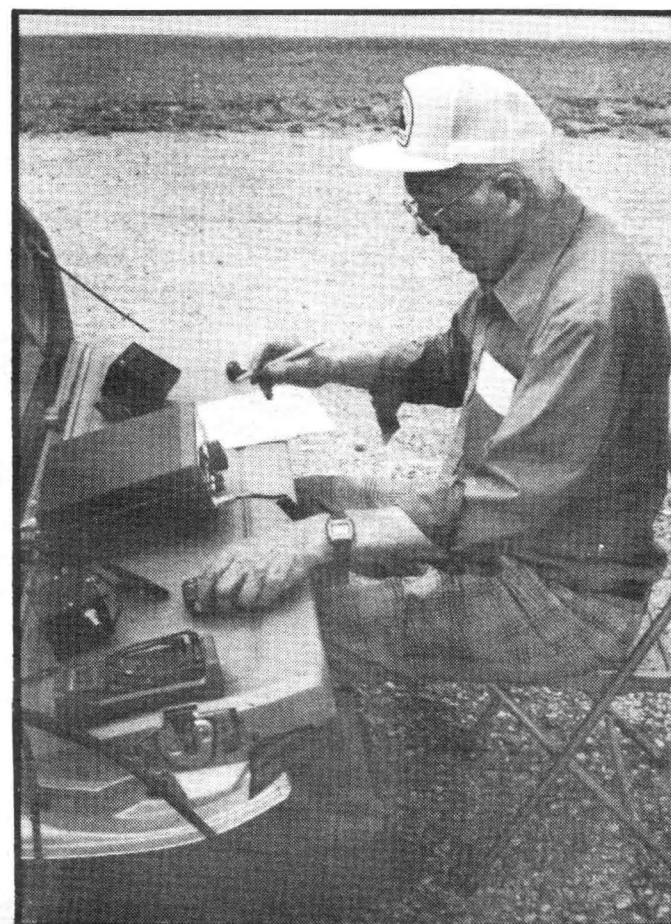
From its usual picturesque operating site, the Yellow Thunder Amateur Radio Club fielded several stations. Some of the operating crew are in these photos.

Left, Duane Grotophorst, KA9HKL, operates packet from the front seat of his car.

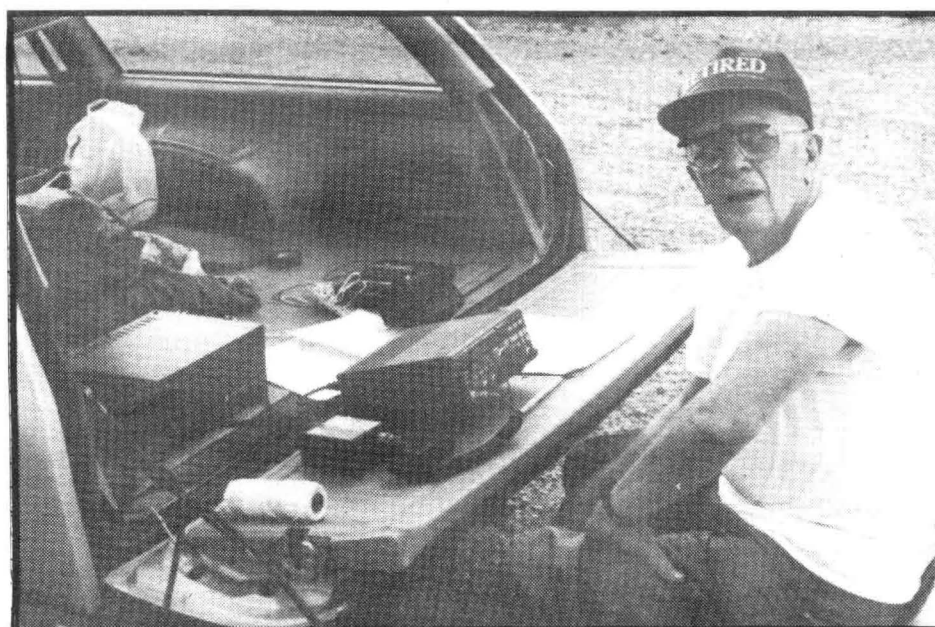
Right, Art Kleefisch, W9WSS, has a tailgate "party" of a different kind. No brats or hot dogs here, but there was lots of Ham.

Lower left: This generator has given the YTARC crew more than its fair share of trouble over the last 10 years or so. This year, the crew found the problem: the magneto was defective. Art Kleefisch, W9WSS, and gang jerry-rigged a capacitor-discharge ignition system to substitute for the magneto; the generator worked better than it ever had!

Lower right: Harry Westlund, K9EHJ, does some tailgate operating.



The YTARC site had a number of visitors, including Ron Radmann, K9DGR, Portage; Al Skinner, WB9YWI, Madison; Bob McGinnis, KB9-AP, rural Lodi; and Gary Bursack, N9HMC, Pardeeville.



Question Pool Committee Adopts Exam Policy for Part 97 Changes

On July 7, 1989, Volunteer Examiner Coordinators (VECs), representing 97% of all Amateur Radio testing, met at their fifth annual conference in Gettysburg, Pennsylvania. The VEC Question Pool Committee (QPC), a standing committee of the VEC Conference, met to discuss the impact of the new Part 97 rules on the existing question pools. The QPC is charged with the responsibility of maintaining these pools. They decided on the following, regarding Part 97 changes that apply to Amateur Radio testing.

Written Elements 2 (Novice) and 3(A) (Technician), released on February 1,

1989, will be implemented on or before Nov. 1, 1989.

The QPC recommends that all Volunteer Examiners (VEs) use discretion in grading those questions where the question or the published answer differs from the rules to be implemented on September 1. VECs are requested to encourage their VEs to implement these recommendations.

The Committee will publish "discretion lists" of question numbers for each pool, that identify those questions affected by the Part 97 rewrite. VEs may wish to substitute these questions from their examinations or, if used, accept an alternate an-

swer that is in accordance with the new Part 97.

Following the publication of a discretion list, the QPC will release a supplement to each existing question pool, to bring the pool into conformity with the new rules. The QPC has committed to the production and release of discretionary lists and supplements for all elements by November, 1990.

All subsequent question pool revision schedules are suspended until the Sixth Annual VEC Conference, on June 15, 1990.

- The ARRL Letter

Sky Warn Picnic

Some of the participants in South-Central Wisconsin SkyWarn nets enjoyed a picnic on Sunday, July 16, 1989. The get-together was held at scenic Owen Park, in Columbia County, near Baraboo and Portage. The park can

be tricky to find, if one isn't familiar with the area. The crowd was small, but enthusiastic, and those present enjoyed several hours of socializing; some sipped ale with chocolate ice cream. A few won prizes, too. Here, in photos taken by your BSSS editor, are some of the attendees.



At left is John Offerdahl, KC9XH, primary net control for SkyWarn nets on 28/88/Baraboo. With him are wife Rita, his guide dog, and their son.



Above is Mike Garske, KB9CCX, with his wife, Maureen. Mike is the son of Poynette Amateur Bob Garske, K9JMP.



Jim Waldorf, KB9AQQ, Madison (bottom) gives neighbor Erich (top - not a Ham) a ride.



ABOVE, left to right, are: Bob Aspinwall, KA9JPZ; KB9AQQ's neighbor (and recent setup volunteer for the Madison Swapfest next April) Erich; Brent Walker, KA9RGC; and Ray Laverty, KB9AKM.



Rita Offerdahl, wife of John, KC9XH, finishes some needlework to be given to Sandy Hemmer, KA9VFW, Baraboo, at right. Sandy won the needlework in a drawing at the picnic. Sandy's husband, L.J., WB9TFJ, is visible behind Rita, at upper left.

TOTAL ATTENDANCE at the picnic was around 20 Radio Amateurs, their spouses, and kids; that doesn't include KC9XH's guide dog, although he IS a K9. Owen Park, in Columbia County, is a beautiful spot, high on top of the Baraboo Bluffs, and overlooking Lake Wisconsin. Blue Mound can be seen from Owen Park, as can the TV towers and the State Capitol in Madison, on nights when the air is clear. Even on the hottest summer days, there is usually a breeze at the park.

Several years ago, the Columbia County Board of Supervisors at the request of Supervi-

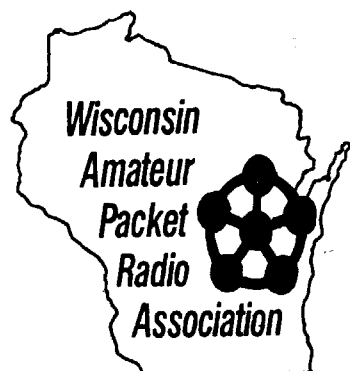
sor Robert Thompson, granted permission to Radio Amateurs to use any Columbia County park at any time for radio exercises.

John Offerdahl, KC9XH, says that, if there is a SkyWarn Net Picnic next year, there will be an announcement and a map here in Badger State Smoke Signals.

Events like this are held all over; if your net or group or club has a get-together, take some photos, and send them to Badger State Smoke Signals. Please identify all subjects by full name, call sign, and home town.

At right is Kevin Kolpitcke, WB9YHB.





THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

c/o CARL SCHUMACHER, N9BYS
7740 EVERGREEN TERRACE
BURLINGTON, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

WAPR MEETING - 8 July 89

Minutes of the meeting of the Wisconsin Amateur Packet Radio Association meeting held on 8 July 89, at the South Milwaukee Swapfest, South Milwaukee, WI.

The meeting was called to order by Dan Bolander, WB9TYT, Chairman of WAPR, at 1047 hrs. There were 34 members of WAPR present for the meeting.

Minutes of the last meeting were not available as the secretary was on vacation.

Treasurer Carl Schumacher, N9BYS, reported a balance of \$844.27 in the Association Account. The report was approved as read.

Pat Davis, KD9UU, gave a thorough report on the state of packet radio in the southwest part of the state. According to Pat, within a month, that area of the state will have a full duplex packet repeater operating at input frequency of 447.050 MHz, with output on 442.050 MHz. The suggested baud rate is 1200. Location of the repeater will be the NFR/WA9SOU-2 site in North Freedom, and should have a coverage area of 80 - 100 miles, using straight audio throughput without regeneration of the packet. Pat further stated that the DAR/KD9UU-9 node has gone QRT as the site has been lost because of the current farm crisis and a change of ownership of the site.

Ray Wolfe, WB9LST, former Board of Director (WAPR), who covers the area of the far southeast corner of the state (Racine and Kenosha) spoke about the problems currently being encountered with the DHIL node.

Dan Bolander, WB9TYT, WAPR Chairman, spoke extensively about node expansion for packet radio over the State of Wisconsin. Noteworthy items are that the Medford node, N9GHZ-1, will be on the air in about two weeks; also, Antigo will also have a node in place (app. 10 miles north of the city) using a temporary antenna until a new tower is installed. The call will be K9MLD-7 with an alias of ANT. A site for a node in Shawano has been secured. The call for this node will be N9CLE-6 with an alias of SHW. All the above sites will operate on a frequency of 145.010 MHz.

Dan further explained that most of the nodes in the state currently (or planned to be) operating on the frequency of 145.010 MHz are actually operating on "borrowed time". As the "backbone" frequencies are extended to the North and West, the current nodes, as you see them now, will change from 145.010 MHz to the local LAN frequency to be able to better serve the area(s) involved. The reason given for using 145.010 MHz to start is that we have to have a method of

getting from point "A" to point "B" and most of that is already in place, but as expansion takes over, and new frequencies are introduced for the long transmission, the local LAN frequencies will have to be integrated with the new system as the expansion occurs, maintaining the LAN frequency as currently in place, and being able to change to the new "long haul" frequency after expansion has been made past that area. Dual nodes will be a must. The example of the southern area of the state was presented, where there currently are no nodes on 145.010 MHz, but rather all are now on specific LAN frequencies. These are all dual port nodes which allows you to connect to your LAN node & then send a connect request for a distant node, irregardless of the frequency.

It was suggested that WAPR funds be used ONLY for the development of the "backbone" nodes for long haul transmission, and the 2 meter frequencies be supported by the local amateurs.

Dan, TYT, has talked with suppliers and can now get most of the new equipment necessary for the above task at dealer cost thru WAPR. This should add incentive for the local amateurs planning on utilizing the planned routes to financially support their respective dual node set up.

Further, Dan stated that the current effort of WAPR is to provide more Board of Director representation and Association support - - visible support - - for the North and the West portions of the state.

Elections:

Nominations for the Chairman, Vice-Chairman, Treasurer, and Secretary were made to retain the current leadership unopposed. A motion was made by Ken Ebener, K9EN, for a unanimous vote for each. This was readily and heartily seconded and the motion was carried by a unanimous vote. Retaining their positions are:

Chairman, Dan Bolander, Milwaukee, WB9TYT
Vice-Chairman, Roy Hawkins, North Prairie, WA9KEC
Treasurer, Carl Schumacher, Burlington, N9BYS
Secretary, Dave Knaus, Milwaukee, WA9POV

Nominees for the WAPR Board of Directors were:

Joe Reed, N9JR, (representing Green Bay and NE part of the state)
Rudolph Hilsman, KB9OK, Germantown
Raymond Wolfe, WB9LST, Kenosha
Pat Davis, KD9UU, (representing the southern and western part of the state)
Walter Dieter, N9CLE, (representing the North and NW)
William Schroeder, W9ZBD, (representing the North and NW)

The four successful nominees for the Board of Directors are:

Joe Reed, N9JR
Pat Davis, KD9UU
Walter Dieter, N9CLE
William Schroeder, W9ZBD

A motion to close the meeting was made by Gregg, WD9DHI, and seconded by Nells, WA9JOB, to adjourn the meeting at 1130 hrs. All approved.

Respectfully submitted by,
Acting Secretary,
WA9KEC, Vice-Chairman, WAPR.

Items of interest from WAPR:

This issue of Badger State Smoke Signals should contain an application form for WAPR. If you are currently not a member, or your membership needs renewal, please fill out the form, enclose the proper amount, and send to Carl Schumacher, N9BYS, 7740 Evergreen Street, Burlington, WI 53105.

While NYBYS is foremost here, the latest figures at press time for the WAPR treasury shows, as of 12 July 89, 72 paid members for WAPR. The balance, as of that date, is \$1118.27, and reflects all outstanding bills paid, including the year-long subscription for each member to BSSS.

On 8 July 89, WAPR was at the South Milwaukee Swapfest with a booth set up immediately as you entered the grounds. The members there, WB9TYT, WA9KEC, and others, had a unique packet station set up and running as WB9TYT-5. All interested persons were given a real-time demonstration of packet radio. The radio had two TNCs connected to it; one running a packet station, and the other having special software from WB9TYT to show the people just what is going on behind the scenes when the traffic moves from node to node. Interesting, even for this author!

New brochures were available at the booth showing the paths, route, frequencies and future routes planned for the state by WAPR. The material also listed all the major BBS stations, nodes, alias, and location for stations throughout the state. These are available for your perusal by writing to Dan Bolander, WB9TYT, 6925 West Sheridan, Milwaukee, WI 53218. They are designed as self mailers, but WAPR would appreciate it if you would send a self-addressed, stamped envelope (#10, or business size). They

make a handy reference tool.

Please make note that your WAPR dues include a years paid subscription to Badger State Smoke Signals. The remainder of the dues amount is used exclusively for the advancement of packet radio throughout the state by the purchase of equipment for nodes to link all areas (eventually) on packet radio.

Joel, K9MLD, will have the ANT node on line and operational by the weekend of July 15. The new node has been tested in the Milwaukee area for the past several weeks, and will be on the air as K9MLD-7, ANT (alias), from a temporary site in the Antigo area. Plans call for the erection of a new 70 foot tower by the end of August, weather permitting. The site should serve the Antigo area primarily, and serve as a link between Wausau and Rhinelander. The frequency of the node will be 145.010 MHz.

Also, at the time of this writing, the equipment for another Northern node is being tested in the Milwaukee area, and may be seen as a test beacon from N9CLE-6, SHW. Wally Dieter, N9CLE, has procured a site in Shawano, WI., with a 70 foot tower in place. It will have a folded dipole antenna with 2 elements facing west, and the other 2 elements facing south-east towards Sheboygan. The future plans for this site include the placement of equipment for 220 MHz as well as in the Milwaukee area, and at Sheboygan, thereby providing a fast link between the North-east part of the state and the Southeast area. (Please refer to the WAPR map mentioned earlier in this article). At the present time, this node

may be accessed on 145.010 MHz as N9CLE-6, with the alias of SHW.

This is a good place to note that all nodes in the state, except those in the Metro Milwaukee area, are presently operating on 145.010 MHz. This is done for continuity purposes to link the state. Eventually, selected nodes will be dual port with the second node frequency providing an alternate band for use in moving traffic.

Earlier this month, Dan Bolander, WB9TYT, Chairman of WAPR, and Wally Dieter, N9CLE, attended a hamfest at Stevens Point. They presented a short informal Question and Answer session about packet radio for the attendees, of which there were quite a few. Dan plans more of these excursions to hamfests in the future as this was most productive.

The next meeting of WAPR and the Board of Directors of WAPR is tentatively set for 12 Aug 89, in the Rhinelander area. The site will be the hamfest sponsored by the Tomahawk / Rhinelander Repeater Association. The meeting will be at about 1430 hrs local, immediately after the AUCTION held at the hamfest. It has been rumored that there may be FREE FOOD and DRINK as they have had in the past. Please, be prepared to BUY something at the auction.

Any one with WAPR-related items is encouraged to send them to Dan Bolander, WB9TYT, for presentation in future issues of Badger State Smoke Signals.

WAPR MEMBERSHIP RENEWALS

All WAPR memberships are from July 1 to June 30. Along with your WAPR membership, you receive Badger State Smoke Signals with the Wisconsin Packeteer column. Most BSSS subscriptions expire with the July issue, and you have been sent renewal notices. We are sorry for the delay in getting this renewal notice mailing out and have sent this August issue to all WAPR members regardless of the status of their subscription.

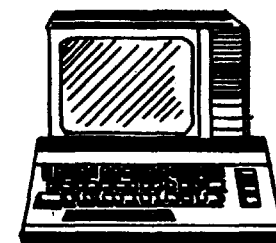
Some of you have subscriptions, that have not yet expired and were not sent renewal notices, however, you must still renew your WAPR membership. You will notice that there is a 4 digit number on your mailing label, and this is the last issue date for your subscription.

All WAPR memberships ended on June 30th, and you must renew if you wish to continue being a WAPR member. Please fill out the form received with your renewal notice, or use the blank at the bottom of this page to renew your WAPR membership and continue your BSSS subscription. Send the completed form to Carl Schumacher, N9BYS, at the address shown on the form.

If you are no longer interested in Packet Radio, but want to continue your subscription, complete the form at the bottom of the renewal letter or use the blank found elsewhere in BSSS.

Remember, you must renew your WAPR membership to remain a member, and help support the programs and activities of WAPR.

73 BSSS



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Station Capabilities: HF: ☐ 2M: ☐ 220 MHz: ☐ 440 MHz: ☐ Other: _____

I operate a Digipeater: ☐ Alias: _____ Packet BBS: ☐ Software Used: _____

Primary Interest in Packet: _____

Please return this form, COMPLETED, with your check or money order for \$ 12.50 to:
Carl Schumacher, N9BYS, 7740 Evergreen Street, Burlington, WI 53105

Yellow Thunder Amateur Radio Club



K90DK
WB9FDZ

Harry Westlund, K9EHJ,
Secretary
720 Jefferson Street
Baraboo, WI 53913

The next meeting of the Yellow Thunder Amateur Radio Club, Inc. will be held in room 25 of the Baraboo Civic Center, on Thursday, August 7, 1989. Meetings start at 7:30 p.m.

The July 19, 1989 meeting of the Yellow Thunder Amateur Radio Club, Inc. was called to order by the President, Duane Grotophorst, KA9HKL, at 8:46 pm in room 25 of the Baraboo Civic Center.

The following members were present:

Duane Grotophorst, KA9HKL	Loganville
Jim Decker, WB9UQT	Baraboo
Ken Ebner, K9EN	Portage
Harry Mayland, K9FFT	Baraboo
Art Kleefisch, W9WSS	Baraboo
Harry Westlund, W9EHJ	Baraboo

On a motion by Art Kleefisch, W9WSS, and seconded by James Decker, WB9UQT, the minutes of the last meeting were accepted as published in the B.S.S.S.

The Treasurers report was given as:
Operating Balance \$343.10
Total Balance 376.67

The Treasurer also reported that Brian Schell, was delinquent in his dues, and he was dropped as a member, in accordance with our Constitution.

There was a short discussion on communications and the annual Trans America Bike Trek. Art Kleefisch, W9WSS participated this year as a designated contact station of our area.

Buck nite winner was: Norman Gade, K9ELK who was not present to claim his prize. Next meeting the prize will be \$2.00

The meeting was adjourned at 8:57 p.m.

Respectfully submitted,
Harry Westlund, W9EHJ, Secretary

YTARC BIRTHDAZE

Jim Decker	WB9UQT	August	16
Ken Johnson	K9DZG	August	25

SENTENCE SERMON

There is a destiny that makes us brothers:
None goes his way alone
All that we send into the lives of others
Comes back into our own.

--Edwin Markham

(via KA9MVG, Loyal, WI)
FOR IMMEDIATE IMPLEMENTATION

TO: ALL EMPLOYEES
FROM: EMPLOYEE RELATIONS - LOYAL, WI
SUBJECT: RESTROOM POLICY

In the past, employees were permitted to make trips to the restroom under informal guidelines. Effective immediately, a Restroom Trip Policy (RTP) will be established to provide consistent methods of accounting for each employee's restroom time, and ensuring equal treatment for all employees.

Under this policy, a Restroom Trip Bank will be established for each employee. The first day of each month, employees will be given a restroom trip credit of 20. Restroom trip credits can be accumulated from month to month.

Currently, the entrances to all restrooms are being equipped with personal identifications and computer-linked voice print recognition. During the next three weeks, each employee must provide two copies of voice prints (one normal, one stressed) to his/her immediate supervisor. The voice print recognition stations will be operational but not restrictive for the remainder of the month. Employees should acquaint themselves with the stations during this period.

If an employee's Restroom Trip Bank balance reaches zero, the doors to all restrooms will not unlock for that employee's voice until the first of the next month.

In addition, all restroom stalls are being equipped with timed paper-roll retractors. If the stall is occupied for more than three minutes, an alarm will sound. Thirty seconds after the alarm sounds, the roll of paper in the stall will retract, the toilet will flush, and the stall door will open.

If you have any questions about the new policy, please contact your employee relations



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WANTED: Old or unusual telegraph keys and bugs. Contact Jerry Scherkenbach at call book address, telephone (414) 481-8831 or Packet radio N9AW @ WB9TYT.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

FOR SALE: TEKTRONIX 7504 oscilloscope with the following: 2 7A16 vertical amplifiers, 7A22 differential amplifier, 7B50 time base, 7B51 delay time base, 7D13 digital multimeter, 7M11 delay line, 204-1 mobile cart & probes. Working in good condtion but some modules may need minor repairs. \$2000.00. Kenneth A. Ebner, 822 Wauona Trail, Portage, WI 53901. (608) 742-3560.

MINNESOTA TESTS

August 12, 1989	ARA Bloomington
September 9, 1989	ARA Bloomington
September 23, 1989	SPRC
October 14, 1989	ARA Bloomington
October 21, 1989	Minneapolis ARC & Gopher ARC
October ??, 1989	Hamfest Minnesota
	Robbinsdale ARC
December 2, 1989	SPRC
December 9, 1989	ARA Bloomington

Contact:
ARA Bloomington, Art Putt, KDØCL 881-7181
SPRC, Mary Ketzler, KSØOMX 426-4438
Minneapolis ARC & Gopher ARC,
Jeff Kolb, WB5MTV 699-6861
Robbinsdale ARC, Ron Schultz, NAØU 920-7473

The above listing of Minnesota tests came from the Ground Wave newsletter published by the St. Paul ARC. If you are intersted in any of these exams, save this issue as BSSS may not be able to

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Milwaukee, WI 53172

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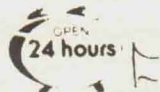
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